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### 1. [16.1-FH1: Technological Enhancements to Improve and Expand Casual Carpooling Systems](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

Traditional carpooling declined in the United States from a 20% mode share in 1980 to 13% in 1990, and then to 10% in 2004, after which it has remained stable at this low level. A variation on the traditional carpool, casual carpooling, occurs in three U.S. metropolitan areas (Washington, D.C., San Francisco, and Houston) and may be an important strategy to help reverse this downward trend. While ...

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### 2. [16.1-FH2: Connected Bicycle: Communicating with Vehicles and Infrastructure](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

The connected vehicles program is a multimodal U.S. DOT initiative that applies the potentially transformative capabilities of wireless technology to make surface transportation safer, smarter, and greener. One of the emerging technologies for vehicle-to-infrastructure (V2I) and vehicle-to-vehicle (V2V) communication is Dedicated Short Range Communications (DSRC). DSRC can support communication bet ...

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### **3. 16.1-FT1: Pedestrian and Cyclist Detection Devices for Transit Buses**

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

Data are limited about the full extent of bicycle and pedestrian use, but the evidence indicates that the use of these modes is on the rise. Data from the National Household Travel Survey (NHTS) from 2001 and 2009, a period during which bicyclist and pedestrian fatalities was decreasing, identified a slight increase in walking, and almost no change in the number of people bicycling. Although NHTS ...

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### **4. A15-101: Fast Charging Rate and High Energy Power Systems for High Shock Survivability**

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Weapons The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section 5.4.c.(8) of ...

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### **5. A15-102: CFD Runtime Acceleration on New Chip Architecture**

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: Develop a callable library of CFD numerical operations that exploit the performance of CFD solvers on new "many integrated core" processors such as the Intel® Xeon Phi™. DESCRIPTION: Computer chip makers like Intel have recently introduced the advanced Many-Integrated-Core (MIC) architecture [1] with the goal of enhancing performan ...

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### **6. A15-103: Rotorcraft Elastic Fuselage Coupling with CFD**

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Air Platform OBJECTIVE: Develop coupling methodology for computational structural dynamics (CSD) and computational fluid dynamics (CFD) models of flexible rotorcraft fuselage and empennage structures to predict interactional buffet airloads, structural loads, and vibration. DESCRIPTION: One of the most important, challenging, and chronic problems occurring during deve ...

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## **7. A15-104: Development of Additive Manufacturing for Aerospace Gear Applications**

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Materials/Processes OBJECTIVE: Develop and demonstrate an additive manufacturing process for advanced aerospace gears meeting or exceeding the mechanical properties of SAE AMS 6308. DESCRIPTION: The lead time for manufacturing gears for testing in Science and Technology (S&T) prototype demonstrators can be several months and requires costly special tooling. Additi ...

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## **8. A15-105: Innovative Matrix Systems for Carbon Fiber Reinforced Composite Tactical Rocket Motor Applications**

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Materials/Processes The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section ...

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## **9. A15-106: Hybrid Thermoplastic Matrix Fabrication Methods for Missile Structures**

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Materials/Processes The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section ...

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## **10. A15-107: Novel Materials for Kinetic Energy Penetrators**

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Weapons The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of

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